BINARY\_SEARCH(SEQUENCE, HIGH, LOW)

START <- 0

END <- 0

IF L >= H

RETURN FASE

WHILE START <= END

MID <- START + END

IF SEQUENCE[MID] > L AND SEQUENCE[MID] < H

RETURN TRUE

ELSE IF SEQUENCE[MID] < L

END <- MID - 1

ELSE

START = MID + 1

RETURN FALSE